

Abstract of the Disclosure

A method, compiler and platform independent framework are provided for parsing and generating data structures. Sizeof and offsetof functions are utilized for defining a length and a location of each parameter of a data structure. The length and location of each parameter of the data structure are stored within an identifier object in a data structure definition. The identifier structure is based on the definition of the data structure itself so that the problem of duplicating the data structure definition is eliminated. The sizeof and offsetof functions automatically account for compiler and platform differences which otherwise would lead to alignment problems so that compiler and platform independence from data structure realignment is provided.